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## RECENT LITERATURE.

**DeToni's Sylloge Algarum.**<sup>1</sup>—This large volume of nearly fifteen hundred pages is devoted to the Chlorophyceæ, and bears the sub-title "Sylloge Chlorophycearum." In general appearance it is like the well-known Sylloge Fungorum of Saccardo, even to peculiarities of type and printing.

After a brief prefatory chapter, one hundred and thirty-nine pages are given to a most useful Bibliotheca Phycologica, in which about thirty-five hundred titles of papers and books on algæ are given, and also thirty-six titles of exsiccatae. This portion of the work is particularly valuable to the student, as it enables him readily to find the extent of the literature in a particular department of the subject.

The Chlorophyceæ, according to DeToni, constitute a class including four orders, viz.: Confervoideæ, Siphonæ, Protococcoideæ, and Conjugatæ, and these again are subdivided into families, apparently co-ordinate with the "orders" Phanerogams. The system is as follows:

## CHLOROPHYCEÆ (Kuetz. ex parte) Wittr.

Ord. I.—**Confervoideæ** (Ag.) Falk.

## A. OOGAMÆ.

- Fam. 1. *Coleochaetaceæ* (Naeg.) Prings.
- " 2. *Mycoideaceæ* (Van Tiegh.) Hausg.
- " 3. *Ædogoniaceæ* (De Bary) Wittr.
- " 4. *Cylindrocapsaceæ* Wille.
- " 5. *Sphæropleaceæ* (Kuetz.) Cohn.

## B. ISOGAMÆ.

- Fam. 6. *Ulvaceæ* (Lamour.) Rabeuh.
- " 7. *Ulotrichiaceæ* (Kuetz.) Borzi.
- " 8. *Chorolepidaceæ* (Rabeuh.) Borzi.
- " 9. *Hausgirgiaceæ* DeToni.
- " 10. *Cladophoraceæ* (Hassall) Witt. char. emend.
- " 11. *Pithophoraceæ* Wittr.
- " 12. *Gomontiaceæ*, Born & Flah.

Ord. II.—**Siphonæ**, Grev. em.

## A. OOGAMÆ.

- Fam. 13. *Vaucheriaceæ* (Gray, Dumort.

<sup>1</sup> *Sylloge Algarum omnium hucusque cognitarum*, digessit Doct. J. Bapt. DeToni. Instituti Botanici Patavini Adjutor, etc., etc. Vol. I. Patavii XXV., Julii, MDCCC-LXXXIX. Sumptibus Auctoris, Typis Seminarii, pp. 12+CXXXIX+1315. 8vo.

## B. ISOGAMÆ.

- Fam. 14. *Dasycladiaceæ* (Endl.) Cramer.  
 " 15. *Derbesiaceæ* Thur.  
 " 16. *Bryopsidaceæ* (Bory.) Thur.  
 " 17. *Caulerpaceæ* Reicheub.  
 " 18. *Spongodiaceæ* Lamour.  
 " 19. *Udoteaceæ* (Endl.) J. Ag.  
 " 20. *Hydrogastraceæ* (Endl.) Rabeuh.  
 " 21. *Phyllosiphonaceæ* Frank.

Ord. III.—**Protococcoideæ**, (Menegh.) Kirch.

- Fam. 22. *Volvocaceæ* (Cohn) Kirch.  
 " 23. *Palmellaceæ* (Decaine) Næg. em.

Ord. IV.—**Conjugatæ** (Link.) DeBary.

- Fam. 24. *Zygnemaceæ* (Menegh.) Rabeuh.  
 " 25. *Desmidiaceæ* (Kuetz.) DeBary.

These families include two hundred and twenty-nine genera, and twenty-nine hundred and ninety-two (2992) species. Very many of the genera contain but a single species, there being no less than eighty-nine such, with many containing but two species. On the other hand, there are several large genera, *e. g.*, *Ædogonium*, with 189 species; *Cladophora*, with 229; *Spirogyra*, 84; *Closterium*, 103; *Cosmarium*, 307; *Euastrum*, 99; *Staurostrum*, 250.—CHARLES E. BESSEY.

**Gremli's Flora of Switzerland.**<sup>2</sup>—This little volume is a genuine pocket manual,—a trifle large, perhaps, but still small enough to be readily slipped into the traveler's coat pocket. It measures  $4\frac{3}{4}$  by 7 inches, and is less than an inch in thickness. The contrast between these measurements and those of our ordinary manuals is striking, *e. g.*, Gray's,  $8\frac{1}{2}$  by  $5\frac{3}{4}$  by  $1\frac{1}{2}$  inches; Coulter's, about the same; Chapman's,  $8\frac{3}{4}$  by  $5\frac{3}{4}$  by  $1\frac{1}{2}$ ; Wood's Classbook,  $8\frac{1}{2}$  by  $6\frac{1}{4}$  by  $1\frac{3}{4}$ ; Wood's Botanist and Florist, 8 by  $5\frac{1}{4}$  by  $1\frac{3}{8}$ . This contrast is still greater when we note the fact that this book contains descriptions of fully 2500 species, while Gray's has but 2348, and Coulter's 1881.

The descriptions are brief, but apparently quite satisfactory, and much space is saved by the liberal use of abbreviations. Keys are abundantly provided, so that there need be no difficulty in determining the name and classification of any plant.

In print, binding, and general appearance (including color), this

<sup>2</sup> *The Flora of Switzerland*, for the use of Tourists and Field-botanists, by A. Gremli. Translated from the fifth edition by Leonard W. Paitson, London. David Nutt, 270 Strand, 1889. Printed at Zurich. 12mo, pp. xxiv., 454.